

PATENT
Attorney Docket No.: 389945
Express Mail Label No.: EL674329515US

What is claimed is:

1. A compressed air vehicle drying system, whereby the system allows for a timed release of pressurized air intended to rinse water from a vehicle's surface, wherein the compressed air vehicle drying system comprises:

- 5 (a) an air compressor;
- (b) a storage tank, whereby the storage tank stores compressed air received from the air compressor;
- (c) an air regulator located proximal to the storage tank, the air regulator designed and dimensioned to allow air to exit the storage tank opposite the air compressor under 10 a pressure ranging between 50 psi and 300 psi;
- (d) an air dryer located downstream from the storage tank;
- (e) a wand having a nozzle with at least one hole, the wand located at the system's end; and
- (f) the system is activated by a vending unit so that, when activated, the vending 15 unit communicates with a solenoid valve located upstream from the wand with the solenoid valve opening to allow passage of the pressurized air.

2. The compressed air vehicle drying system of Claim 1, wherein a pressure switch is located inside the storage tank and attached to the air compressor, whereby the switch activates 20 the air compressor.

3. The compressed air vehicle drying system of Claim 1, wherein the tank has a storage capacity of between 30 and 160 gallons.

- 25 4. The compressed air vehicle drying system of Claim 1, comprising a pivoting boom connected on one end to the wand and on an opposite end to the storage tank.

PATENT

Attorney Docket No.: 389945
Express Mail Label No.: EL674329515US

5. The compressed air vehicle drying system of Claim 1, wherein conduit members, used to attach members of the system, have an inside diameter of at least 3/8 inches.

6. The compressed air vehicle drying system of Claim 1, wherein the wand is 5 configured with a hand grip and a trigger mechanism for activating the flow of compressed air and a spring loaded flexible conduit connects the trigger mechanism and a nozzle.

7. The compressed air vehicle drying system of Claim 1, wherein the nozzle is metal coated with rubber or formed entirely from plastic.

10

8. The compressed air vehicle drying system of Claim 1, wherein the nozzle has at least two holes longitudinally spaced.

15

9. The compressed air vehicle drying system of Claim 1, wherein the valve unit comprises a solenoid actuated valve.

10. The compressed air vehicle drying system of Claim 9, wherein the solenoid actuated valve has a valve internal diameter of at least 3/8 inch.

20

11. A method suited for utilizing a compressed air vehicle drying system, the method comprising:

25

(a) providing a control unit for initiating the flow of compressed air and for selecting the time interval for operation of the vehicle drying system;

(b) providing an air compressor for compressing air, the compressor being initiated by the control unit;

(c) providing an air tank for accumulating compressed air produced by the air compressor;

PATENT
Attorney Docket No.: 389945
Express Mail Label No.: EL674329515US

- (d) providing a conduit for delivery of compressed air from the air tank;
(e) directing the compressed air through the conduit to an air drying unit for drying the compressed air to a pre-selected moisture content; and,
(f) directing the compressed air through the air dryer and the conduit against a vehicle surface.

5

12. A system for drying vehicles, the system comprising:

- (a) a wand having a tip with at least one hole, whereby air passes through the hole, the air projected at a pressure of at least 50 psi, with the air of a sufficient pressure to cause removal of excess water found on a vehicle;
(b) a compressor for pressurizing the air;
(c) an air tank for storing the pressurized air, with the air tank connected to the compressor on one end and the wand on an opposite end.

15

13. The system of Claim 11, wherein the system includes a vending unit designed to activate the system.

14. A method for drying a vehicle, whereby pressurized fluid is directed at the vehicle, 20 the method comprising:

- (a) pressurizing an amount of fluid;
(b) passing the fluid through a tip having at least one hole, with the hole of a size sufficient to cause an air stream to be directed to a specific point on the vehicle; and,
(c) projecting the fluid onto the vehicle surface.

25